

New York State Department of Transportation

Yellow Flag NB2222W016

By: Sahadeo Bhagwandin
Flag Date: November 29, 2022

Superseding Information:
No Flags Superseded

Structure Information

BIN: 1065318
Feature Carried: 278I278IX2M23027
Feature Crossed: 6TH AVENUE
Orientation: 8 - NORTHWEST
Region: 11 - NEW YORK CITY
County: KINGS
Political Unit: City of NEW YORK
Approximate Year Built: 1962
Posted Load Matches Inventory : Yes
Bridge Load Posting (Tons) : Not Posted for Load
Primary Owner: New York State Department of Transportation
Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party
Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder
This Bridge is not a Ramp
Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.
Date: November 29, 2022 3:00:00 PM
Of: NYSDOT Region 11

Signature Information

Signature: Sahadeo Bhagwandin, P.E. 088239-1
Date: December 02, 2022
Reviewed By: Robert Kemp
Date: December 05, 2022

Attachments: 9

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 125			
	107 - Steel Open Girder/Beam	781	ft
	PR831 - Steel Beam End	34	each

Flagged Condition Description

This Yellow Flag No. NB2222W016 is New.

Location: Span 125, Girder G14 at Pier 124 over 3rd Avenue, Eastbound.

Description: The end of Girder G14 in Span 125 at Pier 124 exhibits a 5" long vertical through crack in the upper web stemming from the top cope and extending downwards (Photos 4 & 5).

The area surrounding the crack at the right side of the girder has up to 57% section loss over a 7" H x 4" W area based on D-meter readings (Photo 5). Adjacent to the horizontal stiffener angle at the left and right sides of the girder, the web has up to 20% section loss over a 15" H x 21" wide area (Photos 6 & 7). The web between the horizontal stiffener and the guide angle has up to 42% section loss over a 5" L x 4" H area. The lower section of the web at the right side has 1/8" to 3/16" deep section loss for 3' L x 2"- 5" H and up to 3/16" deep pitting at the top of the bottom flange for 3' L (Photo 8). The lower section of the web at the left side has 1/8" to 3/16" deep section loss for 5' L x 1"- 4" H and up to 3/16" deep pitting at the top of the bottom flange for 5' L (Photo 9). Refer to Flag Condition Sketch (Photo 2) for more details.

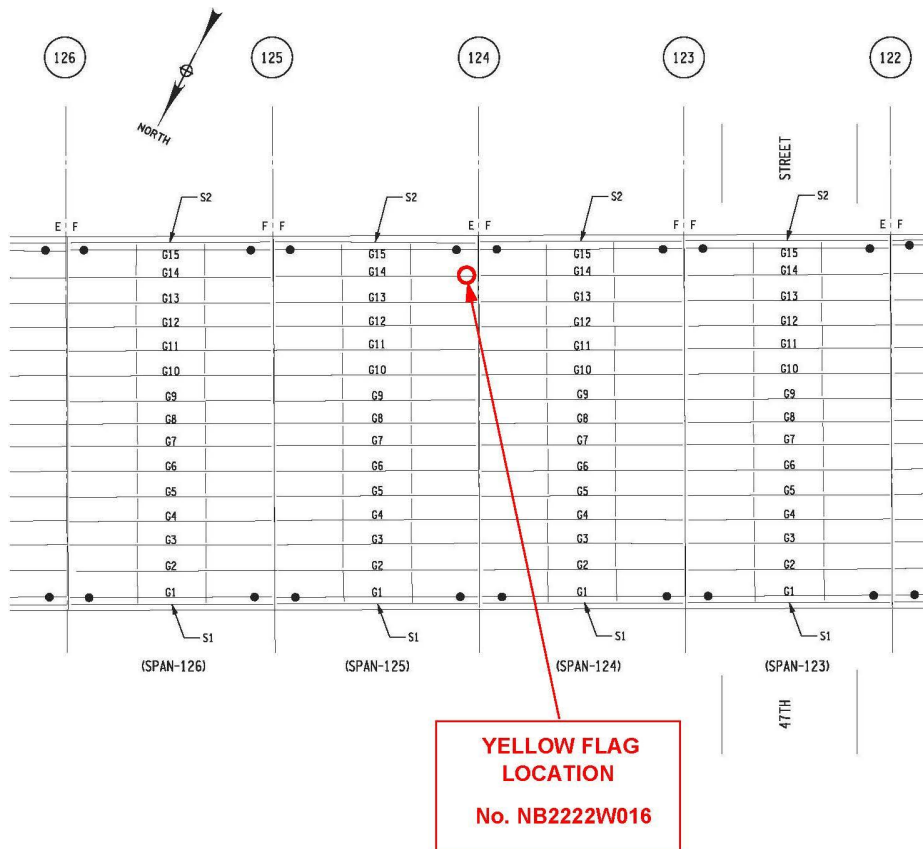
This is a newly flagged condition.

Notes:

1. Paint removal from the newly painted girder was not an option to determine the dimension of the crack. The length of the crack was determined solely by the visible portion of the crack at the upper section and the cracked paint with small air bubbles at the lower section.
2. Girder G13 spaced approximately 6'- 9" from the centerline of G14 has recently been repaired and is in good condition. Girder G15 similarly spaced from the centerline of G14 has been recently cleaned and repainted and exhibits up to 1/8" deep pitting adjacent to the connection angle and is in fair condition.
3. The Safe Span shielding installed by the Painting Contractor El Sol was used to access the location. Note: In the absence of the shielding, a single left lane closure on 3rd Avenue Eastbound (outbound) between 46th and 47th Streets will be required to access the location.
4. The previous 2021 Biennial Report documented the above bearing location as CS-3 with the following Condition State: Girder G14 exhibits up to 35% section loss in the web above the bottom flange in front of the bearing and at web surrounding the end diaphragm.

Flag PhotographsPhoto Number: **1**Photo Filename: **BIN1065318 YF NB2222W016 Framing Plan - SN125**

Gowanus Expressway
2022 Biennial Inspection – Field Notes

BIN: 1065318Team: SB/CTDate: 11/29/2022Span: 125Location: G14 at Pier 124**wsp**

Attachment Description: General view of framing plan with defect location.

Photo Number: 2

Photo Filename: BIN 1065318 - YF NB2222W016 - SN125 G14 at Pier

**Gowanus Expressway
2022 Biennial Inspection - Field Sketch**

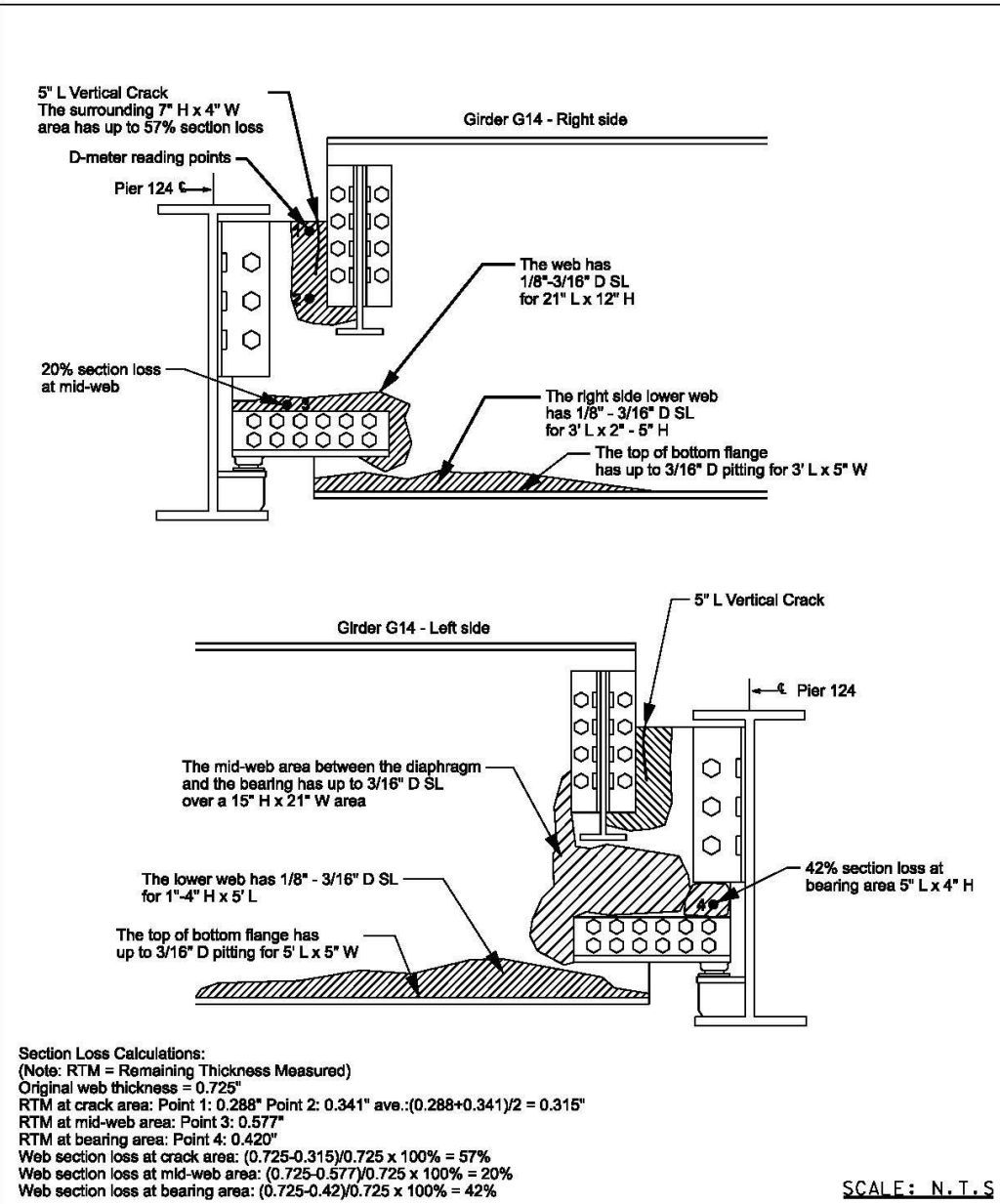
BIN: 1065318

Team: SB/CT

Date: 11/29/2022

Span: 125

Location: Girder G14 at Pier 124



wsp

Attachment Description: Sketch of defects at Girder G14, beam end at Pier 124, Span 125.

Photo Number: 3

Photo Filename: PB292370.JPG



Attachment Description: General view of location of flagged condition, G14 at Pier 124, Span 125. Looking begin.

Photo Number: 4

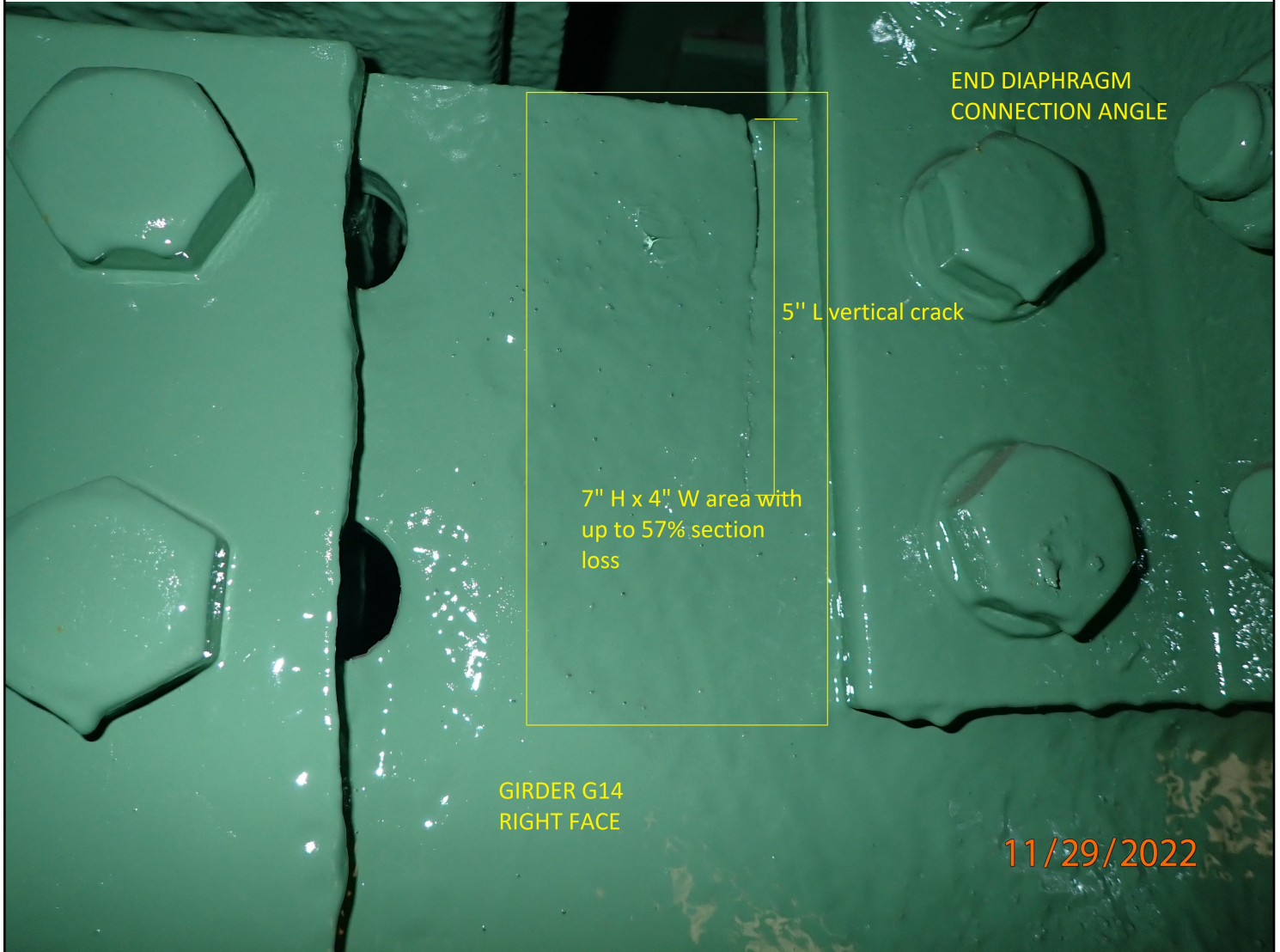
Photo Filename: PB292365.JPG



Attachment Description: Left side of web at the upper cope has a 5" L vertical crack adjacent to the diaphragm connection. The surrounding 7" H x 4" W area has up to 57% section loss. Looking right.

Photo Number: 5

Photo Filename: PB292348.JPG



Attachment Description: Right side of web has a 5" L vertical crack. The surrounding 7" H x 4" W area has up to 57% section loss. Looking left.

Photo Number: 6

Photo Filename: PB292353.JPG



Attachment Description: Left side of web at web stiffener angle has 1/8" - 3/16" deep section loss over a 15" H x 21" W area. Looking begin right.

Photo Number: 7

Photo Filename: PB292351.JPG

GIRDER G14
LEFT FACE

11/29/2022

Attachment Description: The lower web and top of bottom flange at left side has 1/8" - 3/16" deep section loss over a 5' L section. Looking begin right.

Photo Number: 8

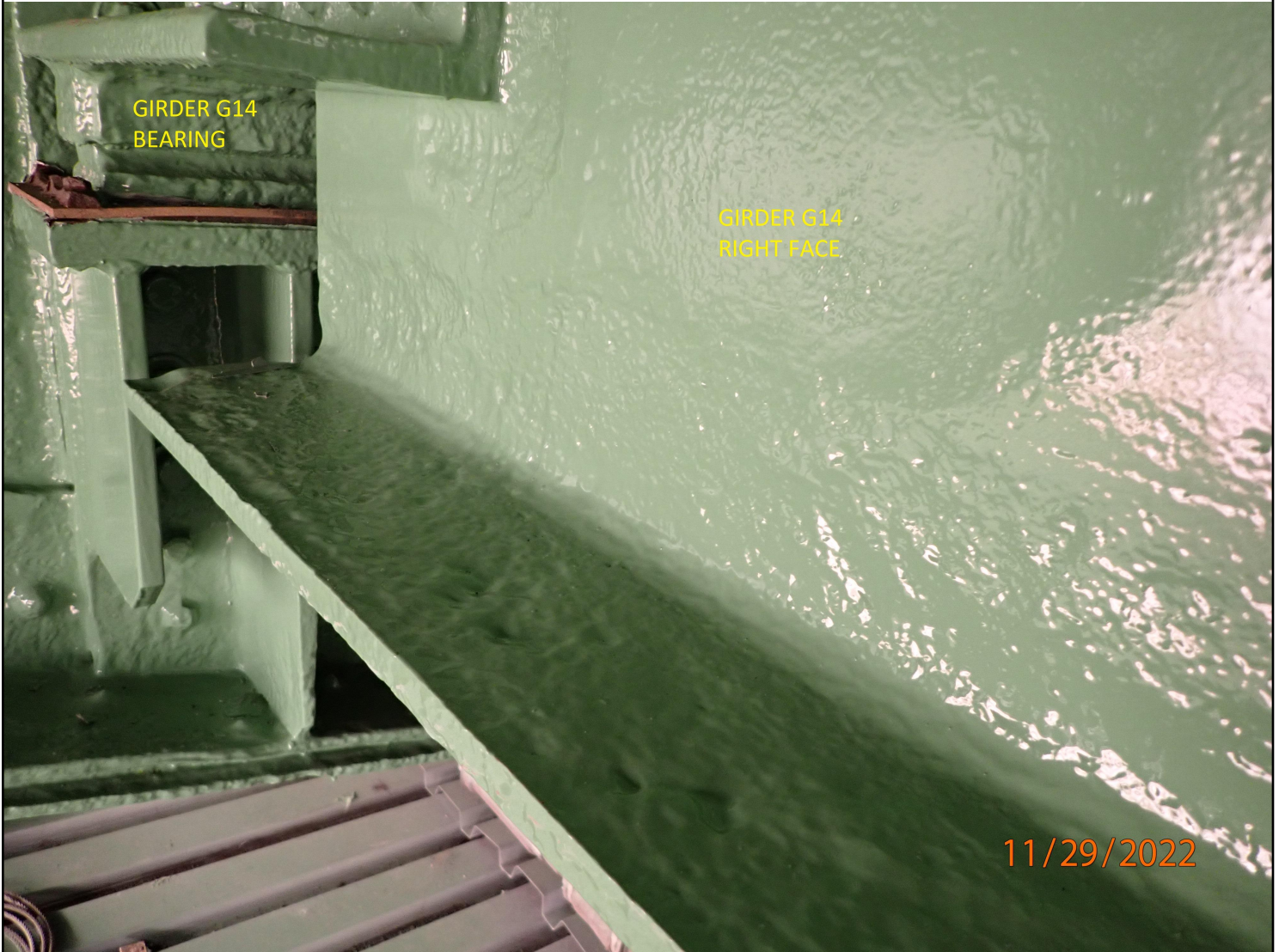
Photo Filename: PB292345.JPG



Attachment Description: The right side of the web has up to 1/8" deep section loss in the area surrounding the stiffener angle. Looking begin left.

Photo Number: 9

Photo Filename: PB292344.JPG



Attachment Description: The lower web and top of bottom flange at right side has 1/8" - 3/16" deep section loss over a 3' L section. Looking begin left.